

Title (en)

Sampled data subsampling apparatus.

Title (de)

Unterabtastungsgerät für Datenproben.

Title (fr)

Appareil de sous-échantillonnage de données échantillonnées.

Publication

**EP 0329381 A2 19890823 (EN)**

Application

**EP 89301385 A 19890214**

Priority

US 15594488 A 19880216

Abstract (en)

An antialias filtering and subsampling system incorporates a compound accumulator including three cascade connected accumulator circuits (52,53,54) conditioned to integrate and dump the integrated values of n input samples. The integrated values from the three integrators are scaled, delayed and combined to produce subsampled values of a signal which has been filtered according to the transfer function  $[\sin(n \pi fT)/n\sin(\pi fT)]^{<3>}$ , where T is the period of the sampling frequency. This function can be generated by a piecewise linear combination of samples derived from accumulators each comprising, according to an aspect of the invention, a plurality of parallel or cascaded adder circuits (520-525) which, responsive to the input samples, provide their outputs at respective sum data terminals (SDO) which are successively coupled (P1...P6) to a serial output port (70).

IPC 1-7

**H03H 17/06**

IPC 8 full level

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**US 4819252 A 19890404**; CA 1298918 C 19920414; DE 68922632 D1 19950622; DE 68922632 T2 19951012; EP 0329381 A2 19890823; EP 0329381 A3 19900919; EP 0329381 B1 19950517; ES 2072294 T3 19950716; FI 890630 A0 19890209; FI 890630 A 19890817; JP 2999478 B2 20000117; JP H01284110 A 19891115; KR 890013904 A 19890926; KR 970007356 B1 19970507

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